1 BEFORE THE STATE OF WASHINGTON 2 ENERGY FACILITY SITE EVAUATION COUNCIL 3 4 In the Matter of Application No. 2004-01: EXHIBIT 26(MB-T) 5 WIND RIDGE POWER PARTNERS, LLC; 6 WILD HORSE WIND POWER PROJECT 7 8 9 10 APPLICANT'S PREFILED DIRECT TESTIMONY 11 **WITNESS # 7: MARK BASTASCH** 12 13 14 Q Please state your name and business address. 15 16 My name is Mark Bastasch and my business address is 825 NE Multnomah, Portland, OR Α 17 97232-2146. 18 19 Q What is your present occupation, profession; and what are your duties and responsibilities? 20 21 22 23 24 25 DARREL L. PEEPLES

EXHIBIT 26 (MB-T) - 1 MARK BASTACH PREFILED TESTIMONY

ATTORNEY AT LW
325 WASHINGTON ST. NE #440
OLYMPIA, WA 98506
TEL. (360) 943-9528 FAX (360) 943-1611
dpeeples@ix.netcom.com

MARK BASTACH

PREFILED TESTIMONY

ATTORNEY AT LW

325 WASHINGTON ST. NE #440

OLYMPIA, WA 98506 TEL. (360) 943-9528 FAX (360) 943-1611 dpeeples@ix.netcom.com

1		Section 3.17.17 Cumulative Impacts, Noise
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3	Q	What exhibits that are part of the Application that you are sponsoring?
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5	A	I am sponsoring the following exhibits to the Application:
6		Exhibit 15A Residences in Project Vicinity
7		Exhibit 15B Results of Noise Impact Model
8		
9	Q	Are you familiar with these sections of the Application and Exhibits?
10		
11	A	Yes
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13	Q	Did you prepare these sections and exhibits, or, if not, did you direct and/or supervise its
14		preparation?
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16	A	Yes
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18	Q	Is the information in these sections and exhibits within your area of authority and /or
19		expertise?
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21	A	Yes
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25	EXHIBIT 26 (MB-T) - 3 MARK BASTACH PREFILED TESTIMONY DARREL L. PEEPLES ATTORNEY AT LW 325 WASHINGTON ST. NE #	

PREFILED TESTIMONY

ATTORNEY AT LW

325 WASHINGTON ST. NE #440

OLYMPIA, WA 98506

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1	Q	Are the contents of these sections and exhibits of the Application either based upon your
2		own knowledge, or upon evidence, such as studies and reports as reasonably prudent
3		persons in your field and expertise are accustomed to rely in the conduct of their affairs?
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5	A	Yes.
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7	Q	To the best of your knowledge, are the contents of these sections and exhibits of the
8		Application true?
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10	A	Yes.
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12	Q	Do you incorporate the facts and content of these sections and exhibits as part of your
13		testimony?
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15	A	Yes.
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17	Q	Are you able to answer questions under cross examination regarding these sections and
18		exhibits?
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20	A	Yes.
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22	Q	Do you sponsor the admission into evidence of these sections and exhibits of the
23		Application?
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	EXHIB	TT 26 (MB-T) - 4 DARREL L. PEEPLES

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Α Yes

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Q Are there any modifications or corrections to be made to those portions of the Application that you are sponsoring?

Α No.

Q Would you please summarize and briefly describe your evaluation of potential noise resulting from the construction an operation of the project.

A

Noise generated by construction of the Project is expected to vary, depending on the construction phase (see ASC Section 2.2.6, 'Project Construction Schedule and Workforce'). Table 3.9.2-1 in the Application for Site Certification lists the typical noise levels associated with common construction equipment at various distances. These levels range from 54 to 62 dBA at 1,000 feet from the source. All noise-generating construction activities will be conducted between the hours of 7a.m. and 10p.m. and are therefore exempt from the State of Washington Noise Limits which are 60 dBA (daytime) and 50 dBA (nighttime) at residential properties (per 173-60-050 WAC). Blasting is anticipated for the foundations and potentially some road areas. Blasting will be conducted only between the hours of 7a.m. and 10p.m. and is anticipated to occur over a period of about eight weeks. Blasting activities are specifically exempted from the noise regulations (per WAC 173-60-050 (1)(c)).

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Q Are there any cumulative effects regarding noise from the Desert Claim, Kittitas Valley and Wild Horse wind power projects.

A No. The Wild Horse project is located over 12 miles from the Desert Claim and Kittitas Valley project. There should be no cumulative effects with regard to noise from these projects.

Given that the closest distance between a residence and a wind turbine is nearly two miles, noise levels are anticipated to be inaudible, or at most similar in level to a soft whisper. Although the exact turbine model to be used for the Project has not been determined yet, conservative values for the type of equipment being considered for this Project have been used to predict project noise levels. Noise levels were modeled based on a 'not to exceed a maximum sound power level' of 110 dBA with a reference wind speed of 18 mph (8 meters per second) at 33-feet (10 meters) in accordance with the protocol established in IEC 61400. Typical guaranteed sound power levels for turbines under consideration for this project are 6 dBA less (104 dBA) than those used in the model.

A three-dimensional noise model was developed using CADNA/A, a sophisticated noise modeling program developed by DataKustik, GmbH, Munich, Germany. The algorithms in CADNA/A are based on the International Standard ISO –9613-2 "Attenuation of Sound During Propagation Outdoors". Octave band sound power levels for the wind turbines and topographic information from the USGS were input into the model. The wind turbine noise emissions are required by 173-60 WAC not to exceed 70

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dBA at all Class C EDNA (industrial/agricultural) property boundaries of nonparticipating land owners. The Project will comply with this requirement at all adjacent property boundaries. Non-participating residential daytime levels are required by 173-60 WAC not to exceed 60 dBA while nighttime levels are not to exceed 50 dBA. As shown in Exhibit 15B, 'Noise', the Project will comply with the more restrictive nighttime limit of 50 dBA at all existing residential structures

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A concrete batch plant and portable rock crusher will used for approximately 6 to 8 months during the road and foundation construction phases. This equipment will be permitted as required by Washington Department of Ecology. ASC Exhibit 7 contains a copy of the air permit application for the portable rock crusher.

The Applicant is committed to designing and operating the Project in a manner that complies with all applicable air and noise regulations. In accordance with the various provisions of WAC 173-400-040, the Project will employ reasonable precautions to minimize fugitive dust from being airborne. The Applicant will implement an effective dust control program to minimize any potential disturbance from construction-related dust. No significant impacts from dust are expected.

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